IAP15 Rec'd PCT/PTO 07 JUL 2006 FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE REV. 7-2005) ATTORNEY'S DOCKET NUMBER 265.00450101 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 0/585503 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/US2005/000722 10 January 2005 09 January 2004 TITLE OF INVENTION MECHANOSENSITIVE ION CHANNELS AND METHODS OF USE APPLICANT(S) FOR DO/EO/US HAMILL, Owen P. MAROTO, Rosario Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: \boxtimes This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below. \boxtimes The US has been elected (Article 31). 4. 5. \boxtimes A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. 🗍 is attached hereto (required only if not communicated by the International Bureau). b. 🗆 has been communicated by the International Bureau. c. 🛛 is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. 🗆 is attached hereto. b. 🔲 has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) 7. 冈 a. 🗆 are attached hereto (required only if not communicated by the International Bureau). b. 🗆 have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).

A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included:

13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. \boxtimes

An English language translation of the annexes to the International Preliminary Examination Report under PCT

15. A FIRST preliminary amendment.

Article 36 (35 U.S.C. 371 (c)(5)).

16. A SECOND or SUBSEQUENT preliminary amendment.

17. A substitute specification.

10.

11.

12.

 \boxtimes

18. A power of attorney and/or change of address letter.

 \boxtimes 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.

20. A second copy of the published International Application under 35 U.S.C. 154(d)(4).

A copy of the International Preliminary Examination Report (PCT/IPEA/409).

21. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

 \boxtimes 22. Express Mail Label No. EV 201876602 US

iAP20 Rec'd PCT/PTO 07 JUL 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ones are reprinted to the protection of the prot							
U.S. APPLICATION NO (if known, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER					
10/585503	PCT/US2005/000722	265.00450101					

23. Other items or information:

> Application Data Sheet (2 pgs.); Transmittal Letter (1 pg. in triplicate); itemized stamped return postcard (1); Communication and Amendment Requesting Entry of Computer Readable Form (CRF) of the Sequence Listing (2 pgs.); copy of Sequence Listing in paper form (7 pgs.); Sequence Listing in computer form (1 diskette).

	g fees have been	submitted	d:				CALCULATIONS	PTO USE
24. 🖾 Basic n	24. 🛛 Basic national fee					\$300	\$ \$300.00	
25. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article All other situations. \$200						\$0	\$ \$200.00	
26. Search fee (37 CFR 1.492(b)) If the written opinionof the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500						\$100 \$400	\$ \$100.00	
	L OF 24, 25 and						\$ \$600.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.								
Total Sheets	Extra Sheets		ber of each additional 50 on thereof (round up to a wh		RATE			
66 - 100 =	0 /50 =		0		x		\$ \$0.00	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$ \$130.00			
CLAIMS	NUMBER F	ILED	LED NUMBER EXTRA RATE					
Total claims	34	- 20 =	14	×	\$50.	00	\$ \$700.00	
Independent clair	ns 6	- 3=	3	x	\$200.	00	\$ \$600.00	
MULTIPLE DEPENDENT CLAIMS (if applicable)						\$ \$0.00		
		T	OTAL OF ABOVE CA	ALC	ULATION	IS =	\$ \$2,030.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					′	\$ \$1,015.00		
SUBTOTAL =					L=	\$ \$1,015.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$ \$0.00			
TOTAL NATIONAL FEE =				\$ \$1,015.00				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +					\$ \$40.00			
TOTAL FEES ENCLOSED =					\$ \$1,055.00			
		<u> </u>					Amount to be	\$
							Amount to be	\$

10/585503

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a college of integration unless it displays a valid OMB control number.

a. A check in the amount of \$

to cover the above fees is enclosed. Please charge my Deposit Account No. 13-4895 \$1,055.00 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. \boxtimes The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. . A duplicate copy of this sheet is enclosed. 13-4895 information should not be included on this form. Provide credit card information and authorization on PTO-2038, NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status SEND ALL CORRESPONDENCE TO: SIGNATURE David L. PROVENCE NAME 43,022 **REGISTRATION NUMBER 7** July 2006 DATE

10/585503

AP20 Rec'd PCT/PTO 07 JUL 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applica	nt(s):	HAMILL et al.							
Docket	No.:	265.00450101							
Title:	tle: MECHANOSENSITIVE ION CHANNELS AND METHODS OF USE								
Mail Sto P.O. Bo									
We are	transmitting t	he following documents along	with this Trans	mittal Sheet (which	ı is submitte	ed in triplicate):			
<u>X</u> <u>X</u> <u>X</u>	Transmittal Submission Application	return postcard. Letter to the United States Desi Under 35 U.S.C. 371 (2 signed Data Sheet (2 pgs.). wing (_ figs on _ sheets).				ing a			
_	A certified of	copy of a application which is claimed under 35 U.S.C		, filed	, 200	, the right of			
<u>x</u>	Other: Copy of International Search Report (5 pgs.); Assignment Recordation Form Cover Sheet (1 pg, plus copy of Assignment (2 pgs)); Communication and Amendment Requesting Entry of Computer Readable Form (CRF) of the Sequence Listing (2 pgs); paper copy of Sequence Listing (7 pgs); Sequence Listing in computer readable form (CRF) (1 disk). Please charge Deposit Account 13-4895 in the amount of \$1055.00 for the filing fee.								
		dditional fees or credit overp	ayment to Dep	osit Account No.	13-4895. A	triplicate			
MUETI	x 581415, M	enclosed. H & GEBHARDT, P.A. inneapolis, MN 55458	Reg	ne: David L. Prove No.: 43,022 ect Dial: 612/305-	ence	men_			
CERTI	FICATE UN	DER 37 C.F.R. 1.10:		-					
"Expres	s Mail" maili	ng label number: <u>EV 2018766</u>	502 US	Date of D	eposit: O	7 July 2006			
Office to	o Addressee"	his paper or fee is being deposit service under 37 C.F.R. 1.10 o tents, Mail Stop PCT, P.O. Box By: By: Printed Name:	on the date indic x 1450, Alexand	cated above and is a dria, VA 22313-14	addressed to				

(TRANSMITTAL UNDER RULE 1.10)